**Ideation Phase**

**Define the Problem Statements**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID44098 |
| Project Name | Project - Intelligent Vehicle Damage Assessment & Cost Estimator For Insurance Companies |
| Maximum Marks | 2 Marks |

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| **Problem Statement (PS)** | **I am (Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| |  | | --- | | To build a VGG16 model that can detect the area of damage on a car. The rationale for such a model is that it can be used by insurance companies for faster processing of claims if users can upload pics and the model can assess damage( be it dent scratch from and estimates the cost of damage. This model can also be used by lenders if they are underwriting a car loan, especially for a used car. | | A commercial worker moving from one location  to another and the person whose vehicle was involved in an accident or sustained damage. | Increase the time required to calculate the cost and % of damage. | To calculate the cost and percentage, upload the image in a clear manner. There is no network problem when uploading the image. | More time was needed to calculate the cost and percentage of damages. | Insurance claim delay. |
| **Problem Statement(PS2)**  Analysis of the damaged vehicle that can be automatically claiming insurance that takes human resource, time and effort. Image processing and machine learning techniques are analyzing the vehicle damage in the proposed solution. Advanced solutions help to speed up the claiming process sufficiently. Consider a situation, if a person is driving a car they meet in an accident the vehicle owner can take a few photos of the damaged car from a mobile phone that can be sent to the insurance company and can just upload the photos to the system. The system can analyze the damage, severity of the damage as well as location of the damage. In this proposed project the insurance company can machine-driven the car damage analysis process without the need for humans to analyze the damage done to the car. | khffewfbv  **I am (Customer)**  An insured consumer who can make a claim, People belonging over the age of 18. | djd  **I’m trying to**  Deviation or difference between the cost calculated  by the company and the actual cost, Many advanced methods of estimating have emerged  as a result of the AI field's quick development. Customers must do it as a result of the new  regulations | **But**  The corporation did not perfectly compensate for the damage. Addressing issues like this is very important in identifying and  unifying exact damage ratio, the cost of damage. | **Because**  The insurance company didn’t reply to the customers and didn’t provide exact  Amount of the cost of the damage. | **Which makes me feel**  Inability to fairy compensate for car damage |